MKSA (SI) units

Fundamental units:

- meter (m) – length
- kilogram (kg) – mass
- second (s) – time
- Ampere (A) – electric current (equal to 1 C/s)

Derived units examples:

- Newton (N) = kg \cdot m/s^2 \quad \text{(force)}
- Joule (J) = kg \cdot m^2/s^2 \quad \text{(energy)}
- Coulomb (C) = A \cdot s \quad \text{(charge unit is derived from Ampere)}
- Volt (V) = J/C = kg \cdot m^2/A \cdot s^3 \quad \text{(measures electric potential)}

etc. (see Appendix A, also the table inside front cover of Young/Freedman)